

Supplement Table 1 Distribution of characteristics in three study samples used in the analysis

| Covariates | Asthma at 36 months | Asthma at 7 years | Use of asthma medications at 7 years based on prescription registry |
|--|--------------------------------|------------------------------|--|
| | (n=53,169) | (n=25,394) | (n= 45,607) |
| Maternal age, years (Mean(std.dev.)) | 30.4 (4.4) | 30.6 (4.4) | 30.0 (4.5) |
| Maternal parity (%) | | | |
| Primiparous | 47.9 | 45.6 | 43.4 |
| 1 | 34.2 | 35.2 | 35.6 |
| 2 | 14.1 | 15.0 | 16.4 |
| 3 or more | 3.8 | 4.2 | 4.6 |
| Maternal education (%) | | | |
| Less than high school | 5.5 | 5.5 | 8.5 |
| High school | 26.8 | 27.6 | 32.2 |
| Up to 4 years of college | 43.1 | 44.9 | 41.0 |
| More than 4 years of college | 24.6 | 21.9 | 18.4 |
| Maternal salary (%) | | | |
| <200,000 NOK | 26.1 | 28.0 | 33.4 |
| 200,000 – 400,000 NOK | 61.4 | 62.5 | 58.5 |
| >400,000 NOK | 12.5 | 9.5 | 8.1 |
| Maternal pre-pregnancy BMI (%) | | | |
| Underweight (<18.5) | 2.9 | 2.7 | 2.9 |
| Normal weight (18.5-24.9) | 66.6 | 66.3 | 65.0 |
| Overweight (25-29.9) | 21.6 | 22.2 | 22.5 |
| Obese (>=30) | 8.9 | 8.9 | 9.7 |
| Maternal asthma (%) | | | |
| No | 92.8 | 93.0 | 92.8 |
| Yes | 7.2 | 7.0 | 7.2 |
| Child birth weight, grams (Mean(std.dev.)) | 3,606 (540) | 3,615 (546) | 3,630 (550) |
| Grandmother smoking when pregnant with the mother (%) | | | |
| No | 66.9 | 67.1 | 64.6 |
| Yes | 23.5 | 23.6 | 25.5 |
| Don't know | 9.6 | 9.4 | 10.0 |
| Maternal smoking during pregnancy (%) | | | |
| Never | 74.6 | 74.6 | 69.2 |
| Previously | 17.9 | 17.9 | 19.7 |
| Smoked during pregnancy | 7.5 | 7.6 | 11.1 |
| Grandmother and mother smoking during pregnancy (%) | | | |
| Neither | 70.3 | 70.1 | 66.3 |
| Only grandmother | 22.4 | 22.5 | 22.9 |
| Only mother | 3.7 | 3.9 | 5.4 |
| Both grandmother and mother | 3.6 | 3.5 | 5.4 |

Missing covariate information <2% for each individual covariate.